

[54] **REMOVAL OF OXIDES OF SULFUR FROM GASES**

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[22] Filed: **Oct. 12, 1973**

[21] Appl. No.: **405,757**

[52] **U.S. Cl.** ..... **423/242; 423/563; 423/428; 423/564; 423/567**

[51] **Int. Cl.<sup>2</sup>** ..... **C01B 17/00**

[58] **Field of Search** ..... **423/563, 210.5, 242, 428, 423/567, 567 A, 564**

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[57] **ABSTRACT**

A continuous cyclic process and apparatus for removing sulfur dioxide (and if present, sulfur trioxide) from gases produced in the combustion of fossil fuels or in chemical and metallurgical processes by means of an aqueous absorption solution including potassium carbonate to absorb said oxides out of said gases whereby potassium carbonate is converted into potassium sulfite (sulfate). A two component, two stage molten process is employed to recover potassium carbonate for reuse in the absorption step and to liberate hydrogen sulfide which may be converted to elemental sulfur by well known methods.

**9 Claims, 1 Drawing Figure**